Attenuation of waves...   S/056/61/040/002/023/047
                                                 B112/B214

With regard to the components of the symmetric tensor Π of the viscosity, reference is made by the author to a monograph of S. Chapman and T. G. Cowling (The Math. Theory of Now Uniform Gase, Cambridge, 1939) and to a paper of S. I. Braginskiy (ZhETF, 33, 458, 1957) which contains exact numerical data. For the frequency ω and the wavelength λ of the waves considered, and the collision frequency ν_{eff} and mean free path l of the particles of the plasma, the following assumptions are made: $\omega \ll \nu_{eff}$ and $l \ll \lambda$. The equation of motion of the plasma has the

form: $\varrho \frac{d\vec{v}}{dt} = -\frac{1}{4\pi}\left[\vec{H} \, \text{curl} \, \vec{H}\right] - \text{div} \, \Pi$. This equation, together with

the equation of continuity and the electromagnetic field equations, determines the wave solutions with the damping constants γ which are obtained in first approximation. The following results are obtained for a strong external magnetic field:

$$\lim_{H \to \infty} \gamma = \frac{\omega^2}{2\nu_{eff}} = C \text{ for}$$

Alfvén waves, and $\lim_{H \to \infty} \gamma = C \tan^2 \beta + C_1$ for magnetoacoustic waves, where

Card 2/3

Attenuation of waves...   S/056/61/040/002/023/047
                                                 B112/B214

β is the angle between the direction of the magnetic field $\vec{H}$ and that of
the wave vector $\vec{k}$; $C_1 = \frac{2}{3} \frac{\mu}{\varrho} \frac{\omega^2}{u_0^2}$ (μ is the coefficient of viscosity,

ϱ the density, and u_0 the velocity of sound in the plasma). The anisotropy of the plasma has no effect on the velocity of wave propagation.
V. P. Silin is thanked for his support in the work; A. V. Gurevich is
mentioned. There are 5 references: 4 Soviet-bloc and 1 non-Soviet-bloc.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet
                  (Moscow State University)

SUBMITTED: June 28, 1960

Card 3/3

39499
S/056/62/043/002/042/053
B108/B102

3,600

AUTHOR: Doych, R. V.

TITLE: The structure of weak shock waves in a plasma

TEXT: The structure of weak shock waves in a plasma is studied with the
aid of theoretical magnetohydrodynamics. The weak shock wave is assumed
to be such that the magnetic field strength behind the wave front reaches
its value without any oscillations. Anisotropy of the plasma and
dissipation effects are taken into account. The width of a shock wave
in an ideal plasma is

$$l_{2,3} = 4 \{4\varkappa_{zz}T (u^2 - v^2) - 9v_0^2 (\lambda_{11}v_0^2 + [(\lambda_{11} + p_{11}) \sin \theta \cos \theta +$$
$$+ \lambda_{11} \sin^2 \theta + p_{11} \cos^2 \theta] u^2 - (\lambda_{11} + p_{11}) v^2 - A_{zz}pc (v_0^2 - v^2))\} \times$$
$$\times \{3v [8 (u^2 - v^2) + 9 (v_n^2 - v^2)] \Delta p)^{-1}. \qquad (24).$$

The
Card 1/2

The structure of weak shock waves in a ... S/056/62/043/002/042/053
B108/B102

ρ_{ik}, λ_{ik} and μ_{ik} are related to the viscosity tensor as $\pi_{ik} = \rho_{ik} dv_x/dx + \lambda_{ik} dv_y/dx + \mu_{ik} dv_z/dx$. u is the Alfvén velocity, v_o is the velocity of sound. θ is the angle between the x-axis and the magnetic field vector. The above formula shows that the width of a shock wave is independent of thermoelectric effects. This formula is considered in particular for a completely ionized plasma.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet (Moscow State University)

SUBMITTED: March 22, 1962

Card 2/2

S/207/63/000/001/005/028
E191/E135

A   Doyen, R.Y. (Cluj, Rumania)

TITLE: Contribution to the theory of shock waves in
          relativistic magnetic hydrodynamics

          PERIODICAL: Zhurnal prikladnoy mekhaniki i tekhnicheskoy fiziki,
          no. 1, 1963, 38-46

TEXT: In contrast to ordinary hydrodynamics, magnetic hydro-
          distinguishes apart from the sound wa   also the
                  propagation of signals.   magnetic

                          the speed of light   of sound

is necessary to use relativistic concepts will be much broader.
                 of weak shock waves is

Contribution to the theory of shock... S/207/63/000/001/005/028
E191/E135

inside the discontinuity. In this derivation ... is
assumed to be isotropic. The width of ... is
a function of the dissipati ... star-
... ... step. ...
... ...ture of shock waves is als. ... thermoelectric
... as a result of thermoelectric ... ...ered. It
... a longitudinal electric field ... ...side the
... electric double layer creates. ... ... a
... However, there is one phenomenon is
...electric effects, which turns out ... ... caused
... ...continuity, the magnetic field ... ...ativis-
... which contains the normal ... ...eviate
... ...ies either before or ... ... and
... shock wave velocity and ... ...ity.
... racy of the first order ... ... step
... ...re step.
... ...re,
... 1, 1962

L 10206-63   EPA(b)/EWT(1)/EPF(n)-2/EWG(v)/BDS/ES(t)-2---- --- ---
AWL/SSD--Pu-4/Pu-4/Pz-4/Pab-4/Po-4--AT/IJP(c)/EM
ACCESSION NR: AP3000062   S/0056/63/044/C05/1640/164

AUTHOR: Doych, R. V.

86
81

TITLE: Attenuation of magnetic sound waves and ... waves in
... relativistic magnetohydrodynamics

SOURCE: Zhurnal eksper. i teoret. fiziki, v. 44, ...

TOPIC TAGS: relativistic magnetohydrodynamics, magnetic sound waves, shock
waves

ABSTRACT: The attenuation of magnetic-sound waves ... in a
relativistic magnetohydrodynamic formulation, ... the material
... the magnetic field in anisotropic. ...
... magnetohydrodynamics ...
... medium are ...
... coefficients of weak ...
... waves is derived. It is noted ...
... the weak magnetic-sound waves ... the attenuation
... the weak ...

Card   1/2

L 10206-63
ACCESSION NR: AP3000062

waves do not depend on the dissipative properties of ... material. The
... waves propagating in a nonrelativ... ... .
, the author expresses his grat... ...
... ... and ... much advice ...
S. ... ..., S. I. Syrovatskiy, and V. N. ... ...
... ... HAS: 21 formulas.

ASSOCIATION: Babesh-Bol'yai University, Cluj, Rumania

SUBMITTED: 12Dec62   DATE ACQ: 12Jun63   ENCL: 00

SUB CODE: PH   NR REF SOV: 003   OTHER: 002

bm/KLb
Card   2/2

VAYSMAN, L.M.; DOYCHENKO, G.P.

Instrument for determining current-conducting impurities in capaci-
tor paper. Bum. prom. 32 no.7:10-13 Jl '57.
                                                                (MIRA 10:11)

1. Ukrainskiy nauchno-issledovatel'skiy institut bumagi.
        (Condensers (Electricity))   (Paper—Testing)

FOTEYEV, S.P., otv.red.; LEBEDEV, P.A., red.; GOLUB, N.V., red.; DOYCHENKO, G.P., red.; IKHEL'ZON, S.M., red.; MARKOV, I.G., red.; SAF'YAN, A.Yu., red.; MARKUSIK, N., red.; SHAFETA, S., tekhn.red.

[Latest developments in woodpulp and paper production] Novoe v tselliulozno-bumazhnom proizvodstve. Kiev. Gos.izd-vo tekhn.lit-ry USSR, 1960. 93 p.   (MIRA 14:3)

1. Ukrainskiy nauchno-issledovatel'skiy institut tsellyuloznoy i bumazhnoy promyshlennosti.
                    (Woodpulp)

FINKEL'SHTEYN, G.E.; Prinimal uchastiye DOYCHENKO, G.P., inzh.

Studying the performance of automatic regulators of the concentration of the pulp. Bum. prom. 38 no.5:11-13 My '63.

(MIRA 16:8)

1. Urkrainskiy nauchno-issle 'vatel'skiy institut tsellyuloznoy i bumazhnoy promyshlennosti.

(Woodpulp industry—Equipment and supplies)
(Automatic control)

DOYCHEV, Kiril   Bulgaria

[Academic Degrees] Architect

[Affiliation]

[Source] Sofia, Khigiena, No 5, Sep-Oct 1962, pp 53-60.

[Data] "The Economics of Public Health Construction."

DOYCHEV, K.; STEPANOV, Ye.M.

Suspended fluidized bed in an electric field. Izv.vys.ucheb.
zav.; chern.met. 6 no.1:174-178 '63.

(MIRA 16:2)

1. Moskovskiy institut stali i splavov.
(Fluidization)   (Electric fields)

BULGARIA/Human and Animal Physiology - Blood.

V-3

Abs Jour   : Ref Zhur - Biol., No 4, 1958, 18027

Author   : Stoyan Doychev
Inst   : —
Title   : Changes in the Osmotic Resistance of the Erythrocytes of Mares in Heat.

Orig Pub   : Nauch. tr. M-vo zemed. Ser. zhivotnov"datbo i vet. delo, 1956, 1, No 2, 37-44.

Abstract   : In 283 determinations on 170 mares it was established that there is an increase during heat in the minimal and maximal resistance of the erythrocytes, particularly at the moment of ovulation.

Card 1/1

DOYCHINOV, D. (Sofiya, Bolgariya)

Necessary and sufficient conditions for embedding a space into a Euclidean space. Dokl.AN SSSR 138 no.6:1276-1279 Je '61.

(MIRA 14:6)

1. Predstavleno akademikom P.S.Aleksandrovym.
(Euclidean space)   (Aggregates)

DOYCHINOV, Doychin

On the uniform embedding of spaces in the Euclidean and
Hilbert spaces. Godishnik fiz 55 no.1:41-75 '60/'61 (publ. '62)

DOYCHINOV, D.

Unified theory covering topological spaces, spaces of proximity, and uniform spaces. Dokl. AN SSSR 156 no. 1:21-24 My '64.

(MIRA 17:5)

1. Sofiyskiy universitet, Sofiya, Bolgariya. Predstavleno akademikom P. S. Aleksandrovym.

DOYCHINOV, D.B.

Imbedding of uniform spaces in Hilbert space and Euclidean space.
Dokl. AN SSSR 135 no.6:1314-1317 D '60.   (MIRA 13:12)

1. Sofiyskiy universitet, Sofiya, Bolgariya. Predstavleno
akademikom P.S. Aleksandrovym.
                    (Spaces, Generalized)

DOYCHINOV, D. B.

Cand Phys-Math Sci – (diss) "Uniform enclosure of spaces in Euclid-
ean and Hilbert spaces." Moscow, Pub. Moscow Univ, 1961. 4 pp;
(Moscow Order of Lenin and Order of Labor Red Banner State Univ
imeni M. V. Lomonosov); 200 copies;price not given; bibliography
on p 4 (16 entries); (KL, 6-61 sup, 193)

BULGARIA / Human and Animal Physiology (Normal and Pathological).   T-4
          Blood.

Abs Jour   : Ref Zhur - Biologiya, No 13, 1958, No. 60157

Author   : Doychev, S.
Inst   : Ministry of Agriculture
Title   : Osmotic Resistance of Erythrocytes in Normal Colts,
             and Those with Bronchopneumonia

Orig Pub   : Nauch. tr. M-vo zemed. Ser. zhivotnov"dstvo i vot. delo,
             1956, 1, No 3, 35-40

Abstract   : The osmotic resistance of erythrocytes (ORE) was
             investigated according to Ribor-Limbek on 50 normal
             colts, on 30 with bronchopneumonia and on 50 non-pregnant
             mares. The minimal and maximal ORE of healthy colts
             and non-pregnant mares were of the same order, 0.66 ±
             0.01 and 0.48 ± 0.007. In colts with bronchopneumonia,
             the maximal ORE (0.48 ± 0.007) and the minimal one

Card 1/2

BULGARIA/Pharmacology and Toxicology - Analeptics.   V-4

Abs Jour   : Ref Zhur - Biol., No 21, 1958, 98500

Author   : Doychinov, Al., Mitrova, D., Hristozov, Khr., Mitrov, G.

Inst   : Department of Biological and Medical Sciences of the
               Bulgarian AS

Title   : On Pharmacodynamic Action of Schizandra Chinensis on the
               Cardio-vascular System.

Orig Pub   : Izv. Otd. biol. i med. n. B"lg. AN. Ser. eksperim. Biol.
               i med., 1957, No 2, 67-79.

Abstract   : A tincture of Schizandra chinensis (Chinese lemon seeds)
               (I) on introduction to healthy experimental animals in a
               quantity of 50 drops once, produces an insignificant
               slowing of the pulse at rest, and a slight lowering of
               the blood pressure during the first hour after intake.

Card 1/2

- 15 -

B/006/62/000/005/001/001
D274/D308

AUTHOR: · Doychinov, S.

TITLE: Radio telescopes - "the windows" to the Universe

PERIODICAL: Radio i televiziya, no. 5, 1962, 133

TEXT: A popular article on radio astronomy. It is stated that the
biggest radio telescope in the USSR is installed at the Simeiz Ob-
servatory with an antenna 18 m long and 8 m wide. Because of diffi-
culties when suspending the radio mirror, radio telescopes are fi-
xed and can, therefore, receive transmissions only from a limited
part of the sky. In Simeiz on the mountain slopes one can see para-
bolic cups 30 m in diameter. In Pulkovo, USSR an original radio te-
lescope is being constructed with receiving equipment in the form
of a belt 100 m long and 3 m wide. The radio telescope can "see"
phenomena inaccessible to ordinary astronomical devices". Radio wa-
ves pass through cosmic dust and thus it has been proved that the
visual split of the Milky Way does not in fact exist. Hydrogen was
found in space and more accurate data for the temperature of inter-
stellar space was obtained. The solar crown can now be observed eve-
Card 1/2

Radio telescopes - "the windows" to ...   B/006/62/000/005/001/001
                                            D274/D308

ry day. Soviet scientists I.S. Shklovskiy, V.L. Ginzburg, B.M.
Chikhachov have proved that the sun-spots cause radiation hundreds
of times stronger, connected with the magnetic storms on Earth.
Scientific data obtained through radio astronomy will help to impro-
ve the study of the propagation laws of radio waves through the
earth's atmosphere and to give more accurate radio forecasts.

Card 2/2

BULGARIA

NEDYALKOVA, M., DOYCHINOVA, N.; Scientific Research Institute of Hematology
and Blood Transfusion (Director Prof. V. Serafimov-Dimitrov)

"Effect of Heterologous Erythrocyte Antigens on Irradiated Animals"

Abstract: Guinea pigs were immunized by intraperitoneal injection of a
suspension of human erythrocytes and irradiated on the 7th day after the
injection with X-rays in a dose of 340 r. Immunization with heterologous
erythrocyte antigens increased the immunological reactivity of the experimental
animals as compared with control animals that were irradiated without having
been immunized, but did not affect the course of the radiation sickness as
such. None of the experimental animals developed complications due to infec-
tion, while one of the control animals exhibited bacteremia on the 7th day
after irradiation. Aerobacter aerogenes was isolated from the blood of this
animal. Graphs, 17 references (9 USSR, 8 Western). Russian and English
summaries. Manuscript received Jul 66 (Jul 65 ?).

1/1

ACCESSION NR: AP4033104

single crystal and fastened to a goniometer. The diffractometer can be adjusted
to any wavelength from 1.5 Å to the "white" radiation. Proportional counters
filled with BF_3 at 400 torr with up to 86% B^{10} are used for neutron detection.
Three neutron-diffraction curves are shown; design details are supplied. "The
assembling and testing of the first laboratory model of the device were carried out
by V. I. Goman'kov, N. V. Grin'kin, S. A. Vyazemskiy, D. F. Litvin, A. A.
Loshmanov, and B. G. Lyashchenko." Orig. art. has: 4 figures.

ASSOCIATION: Institut metallovedeniya i fiziki metallov TsNIIChM (Institute of
Metal Science and Physics of Metals, TsNIIChM); Institut fiziki AN GruzSSR
(Institute of Physics, AN GruzSSR)

SUBMITTED: 30May63   ATD PRESS: 3046   ENCL: 01

SUB CODE: NP   /   NO REF SOV: 001   OTHER: 003'
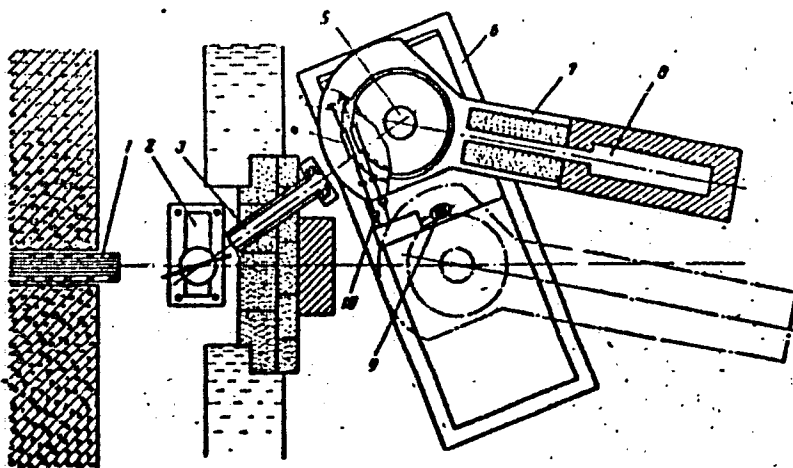
Card   2/3

Fig. 1. Universal device for neutron-diffraction studies
    1 - Collimator; 2 - crystal monochromator; 3 - channel;
    4 - wormgear; 5 - stage; 6 - support plate; 7 - console;
    8 - detector; 9 - electric motor; 10- electromagnetic clutch.

Card 3/3

DOEMIN, V.M.

Seven-year plan for the Moscow automobile industry. Za rul.
17 no.8:1-2 Ag '59.   (MIRA 12:12)

1. Nachal'nik Upravleniya avtomobil'noy promyshlennosti Moskov-
skogo gorodskogo sovnarkhosa, chlen Soveta TSentral'nogo
avtomokluba SSSR.
            (Moscow--Automobile industry)

DOYEV, N.G.

Work of the feldsher-midwife centers of the R.S.F.S.R. Fel'd. i
akush. 24 no.12:43-47 D '59.   (MIRA 13:2)
                        (MEDICAL CARE)

Dolgin, M. F.

Dolgin, M. F.

Theory of internal photo effect on polarons and color centers. (Light frequencies for the case of F-centers)

Zhurnal Eksperimental'noi i Teoreticheskoi Fiziki

18, 9, 1948, 818-24

From: B.N.L. Guide to R.-Scientific Per. Lit. No. 3, March 1949, p. 110

PARFENOV, N.P., dotsent, kand. tekhn. nauk; GOMONOV, V.K., aspirant;
BROVCHENKO, R.A., student; KULIKOV, Yu.I., student; DOYKHEN, Yu.M.,
student

Fixed fastening of a unit in a plane under directionally variable
loading. Sbor. trud. Khab. avt.-dor. inst. no.1:12-15   '62.
(MIRA 18:1)

Dofkov, V.

"Largest Bridge in Europe" , P.1
(GEOGRAFIIA,   Vol. 4,   No. 7,   1954 - Bulgaria)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, No. 4,
April 1955, Uncl.

DOIKOV, V.

"Modern Agricultural Farm at Ruse", P. 5, (GEOGRAFIIA, Vol. 4, No. 4, 1954, Sofiya, Bulgaria)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, No. 1, Jan. 1955, Uncl.

DOYKOV, Vasil G.

SURNAME (In caps); Given Names

Country: Bulgaria

Academic Degrees: not indicated

Affiliation: Member of the staff of Geografiya, Editor: Tyanko
            YORDANOV

Source: Sofia, Geografiya, No 1, 1961, pp 16-17 and p 23

Data: "Karlovi Vari--A Czechoslovak Resort Pearl." (pp16-17)
        "International Limnologic Convention in Ruse" (p 23)

DOYLNITSYN, Ye. Ya. et al.

"Neutron thermalization studies in hydrogeneous media."

report presented at the 3rd Intl Conf, Peaceful Uses of Atomic Energy, Geneva, 31 Aug-9 Sep 64.

YEFIMOV, V.M.; DOYLOV, S.K.

Shale distillation generators with transverse heat-carrier
flow. Khim. i tekh. gor. slan. i prod. ikh perer. no.10:
120-134 '62.   (MIRA 17:5)

LIVSHITS, V.M.; YEFIMOV, V.M.; SUURKIVI, E.R.; DOYLOV, S.K.

Results of a balance test of the remodeled gas generators of the shale-chemical Kivioli Combine. Khim. i tekh. gor. slan. i prod. ikh perer. no.11:126-135 '62.
(MIRA 17:3)

DoYmEv G

Country	:	Bulgaria
Category=	:	Chemical Technology. Chemical Products and Their Applications. — Food Industry.
Abs. Jour.	:	R. Zh. - Khim., No. 11, 1959

H-28

40561

Author	:	Doymev, C. and Kalev, S.
Institut.	:	Not given
Title	:	Natural or Artificial Curing of Bologna?

Orig. Pub. : Khranitelna Promishlenost, 7, No 4, 16-18 (1958)

Abstract : The authors discuss the principles involved in the curing of bologna under natural and under artificial conditions. A curing diagram and a schematic diagram of a curing plant are included.

A. Marin

Card: 1/1

H-154

DOYNIKOV, A., entomolog (Astrakhan')

Eurytoma amygdali. Zashch. rast. ot vred. i bol. 10 no.8:40 '65.

(MIRA 18:11)

DOYNIKOV, A.I.

"Improving the Physical Properties of Gypsum Utilized in Orthopedic Stomatology"
Stomatologiya, No. 1, 1949.

Chair Orthopedic Stomatology, Moscow Stomatological Inst.

DOYNIKOV, A. I.

36452.
K Povysheniyu Kachestva Stomatologicheskogo Obsluzhivaniya Naseleniya. Stomatologiya,
        1949, No.4, S. 53-28.

SO: Letouis' Zhurnal'nykh Statey, Vol. 49, Moskva, 1949

DOYNIKOV, A. I.

"Characteristics of the Anatomical and Microscopic Structure of the Lower Jaw of a Human Being." Sub 30 May 51, Moscow Medical Stomatological Inst, Ministry of Public Health RSFSR.

Dissertations presented for science and engineering degrees in Moscow during 1951.

SO: Sum. No. 480, 9 May 55.

DOYNIKOV, A. [1.]

"Letter with Instructions Pertaining to Qualitative Indices of the Work of Stomatologic Polyclinics, Departments and Offices," Stomatoligiya, No.1, 1952.

DOYNIKOV, A.I., dotsent; ROZHNOVA, R.A., studentka IV kursa.

Anesthesia of the teeth in their preparation for a non-removable prosthesis. Stomatologiia no.5:44-45 '53.   (MLRA 7:1)

1. Iz kafedry ortopedicheskoy stomatologii (zaveduyushchiy - professor V.Yu.Kurlyandskiy) Moskovskogo meditsinskogo stomatolo-gocheskogo instituta (direktor G.N.Beletskiy).
                    (Anesthesia in dentistry) (Teeth, Artificial)

DOYNIKOV, A.I., dotsent

Use of magnets for better setting of dental prosthesis on toothless jaws. Stomatologiia 35 no.3:50-52 My-Je '56.   (MIRA 9:9)

1. Iz kafedry ortopedicheskoy stomatologii (zav. - prof. V.Yu. Kurlyandskiy) Moskovskogo meditsinskogo stomatologicheskogo instituta (dir. - dotsent G.N.Beletskiy)
     (DENTAL PROSTHESIS)

DOYNIKOV, A.I., dotsent

Enlarged plenary session of the scientific councils of institutes
of traumatology, orthopedics and reconstructive surgery. Stomatologiia
35 no.63-64 Ja-F '56.   (MIRA 9:6)
    (STOMATOLOGY)

DOYNIKOV, A.I.   *DOYNIKOV, A.I.*

International exhibition of stomatological equipment. Med.prom. 12
no.1:58-60 Ja '58.   (MIRA 11:2)
          (DENTAL INSTRUMENTS AND APPARATUS)

DOYNIKOV, A.I., dotsent; SENCHILLO, K.K., tekhn.red.

[Collection of official documents on the organization of
stomatological care] Sbornik ofitsial'nykh materialov po
organizatsii stomatologicheskoi pomoshchi. Izd.2., ispr. i
dop. Moskva, Gos.izd-vo med.lit-ry, 1960. 157 p.
                                        (MIRA 13:11)
       (STOMATOLOGY--LAWS AND REGULATIONS)

NGUYEN, GUY-FAN; DOYNIKOV, A.I., red.; PETROVA, N.K., tekhn. red.

[Surgical treatment of hemangiomas of the maxillofacial
region] Khirurgicheskoe lechenie gemangiom cheliustno-
litsevoi oblasti. Moskva, Medgiz, 1962. 114 p.
(MIRA 15:7)
(ANGIOMA) (FACE—TUMORS) (JAWS—TUMORS)

DOYNIKOV, A.I., dotsent

      Take care of your teeth. Zdorov'e 9 no.3:6-7 Mr '63.

               (TEETH—CARE AND HYGIENE)

(MIRA 16:5)

DOYNIKOV, Aleksey Ivanovich, kand. med. nauk; LAGUTINA, Y..V.,
red.

[Teeth and the health] Zuby i zdorov'a. Moskva, Izd-vo
"Znanie," 1964. 30 p. (Narodnyi universitet: Fakul'tet
zdorov'ia, no.22)   (MIRA 17:12)

Izdmkov, A.V.

CA

15

Control of codling moth. A. V. Izdmkov, *Bull. Plant Protection* (U. S. S. R.) 1940, No. 4, 65 6. Good results were obtained from Na₂HAsO₄, NaF, Na₂SiF₆, BaCl₂, nicotine sulfate solns., etc., in various concns. and combinations. Nicotine sulfate solns., when tested on the summer generations of the moths, destroyed them after 24 hrs. (sometimes even after 1 hr.).   W. R. Henn

METALLURGICAL LITERATURE CLASSIFICATION

```
COUNTRY      :  USSR.
CATEGORY     :  Zoological Parasitology. Acarids and Insects    3
                as Disease Vectors. Insects.
ABS. JOUR.   :  RZhBiol., No. 14, 1958, No. 62675.

AUTHORS      :  Doynikov, A. V.; Derevyanchenko, K. I.;*
INST.        :  The Astrakhan  Anti-Plague #  Station.
TITLE        :  Fleas of the Rodents in the Sand Zone of the
                Astrakhanskaya Oblast's Left Bank Territory.

ORIG. PUB.   :  Sb. tr. Astrakhansk. protivochumn. st., 1955.
                vvp. 1, 302-355.
ABSTRACT     :  For 1947-1950, there were collected on the
                southwestern Volga-Ural sands mainly from
                the crested (CSE) and midday (MSE) gerbils
                222,057 fleas.  The little beasts, the en-
                trances into burrows (by means of raking) and
                the nests (with the help of digging) were
                examined.  26 flea species were discovered.
                "Actual" (obtained by a careful registered
                collection) abundance indices (I) of the

CARD:  1/7

                *Kazantseva, Yu. M.; Chernova, N. I.
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19

COUNTRY	:	USSR.
CATEGORY	:	Zoological Parasitology. Acarids and Insects G as Disease Vectors.
ABS. JOUR.	:	RZhBiol., No. 14,1958, No. 62692.
AUTHOR	:	Doynikov, A. V.
INST.	:	Astrakhan Anti-Plague ... Station.
TITLE	:	Effect of the Gerbils' Extermination on the Numbers of Their Fleas.
ORIG. PUB.	:	Sb. tr. Astrakhansk. protivochumn. st., 1955, vyp. 1, 405-415.
ABSTRACT	:	Observations were conducted in 1947-1950 on a section (97 thousand ha) of sands overgrown with weeds, where each spring (principally in April) gerbils were exterminated. Operational efficiency (in two weeks after completion of the task) was 85-90%, with a residual density of 0.8-1.6 gerbils per 1 ha; towards autumn the gerbils' numbers increased and sometimes even were reestablished. An

CARD: 1/4

35

COUNTRY   :
CATEGORY   :

ABS. JOUR.   : RZhBiol., No.14, 1958, No. 62692.   G

AUTHOR   :
INST.   :
TITLE   :

ORIG. PUB.   :

ABSTRACT   : adjacent mountain range served as a control
                 station. The flea numbers were judged by the
                 abundance indices on the crested gerbils (over
                 74 thousand had been examined), which every
                 year had been poisoned in April-June and Sep-
                 tember-November. The abundance indices on the
                 territories, where the tasks had been completed,
                 diminished since the autumn of 1947 and con-
                 stituted, as a rule, 30-65% of those in control.
                 The extermination of the gerbils had a stronger
                 effect on Xenopsylla conformis, a lesser one on

CARD: 2/4

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COUNTRY      :
CATEGORY     :

ABS. JOUR.   :  RZhBiol., No. 14,1958, No. 62692.                    3

AUTHOR       :
INST.        :
TITLE        :

ORIG. PUB.   :

ABSTRACT     :  Ceratophyllus laeviceps and almost none on
                Coptosylla lamillifer. The author  explains it
                by the fact that, during the execution of ex-
                terminating operations in April, the minimum
                of the gerbils' numbers coincides with the pe-
                riod of the increase of the X conformis numer-
                ical indicators on the gerbils and their egg-
                laying.  The spring numerical peak and the
                bulk laying of eggs by C. laeviceps takes place

CARD: 3/4
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BO...OV, P. B.

DO..OV, P. B. - "The use of two-stage evaporation with two-hole three-
dimensional shields to improve the efficiency of operating low-power
boilers in industrial boiler plants". Minsk, 1955. Min Higher
Education USSR. Belorussian Polytechnic Inst imeni I. V. Stalin.
(Dissertation for the Degree of Candidate of Technical Science.)

SO: Knizhnaya Letopis', No. 43, 22 October 1955. Moscow

ODEL'SKIY, E.Kh., prof., doktor tekhn.nauk; DOYNIKOV, B.D., dotsent, kand.tekhn.nauk

Using horizontal collectors in the high-temperature zone of double sided heat-reflecting baffle plates of small boilers. Sbor. nauch. trud. Bel. politekh. inst. no.74:86-99 '59.   (MIRA 13:8)
                        (Boilers)

DOYNIKOV, B.D., kand. tekhn. nauk, dots. Prinimali uchastiye: ODEL'SKIY, E.Kh., prof., zasl. deyatel' nauki i tekhniki BSSR, doktor tekhn. nauk; KUDRYASHOV, L.I., prof.; ERLIKMAN, A.M., dots., UVAROV, G.A., dots.; BLYUM, A.G., red.; KUZ'MENOK, P.T., tekhn. red.

[Studying the heat-exchange processes in the water systems of small capacity steam boilers] Issledovanie teploobmennykh protsessov vodnogo rezhima parovykh kotlov maloi moshchnosti. Minsk, Redaktsionno-izd. otdel BPI im. I.V.Stalina, 1961. 170 p.   (MIRA 14:11)
                (Boilers)   (Heat—Transmission)

L 14520-66   EWT(d)/EWT(1)/EWT(m)/EPF(n)-2   IJP(c)   HW/JD
ACC NR: AT6003084   SOURCE CODE: UR/3181/63/000/015/0177/0184

7 3

AUTHOR: Doynikov, B. D.

ORG: None

TITLE: Accurate equations for determination of the calculated tempera-
ture difference in convective bundles with gas radiation

SOURCE: Kuybyshev. Aviatsionnyy institut. Trudy, no. 15, pt. 2, 1963.
Doklady kustovoy nauchno-tekhnicheskoy konferentsii po voprosam
mekhaniki zhidkosti i gaza (Reports of the Joint scientific-technical
conference on problems of the mechanics of liquid and gas), 177-184

TOPIC TAGS: radiative heat transfer, convective heat transfer, heat
exchanger, gas dynamics

ABSTRACT: Conventionally, for calculation of the mean temperature
difference in the case under consideration, use is made of the following
equation:

$$\Delta t = \frac{\Delta t_1 - \Delta t_2}{\ln \frac{\Delta t_1}{\Delta t_2}},\qquad (1)$$

where $\Delta t_1 = t_1 - t_s$; $\Delta t_2 = t_2 - t_s$. Here, t_1 and t_2 are, respectively, the

Card 1/2

L 14520-66

ACC NR: AT6003084

O

temperatures of the gases before and after the convective bundle, and t_s is the saturation temperature at a given vapor pressure. This equation is very approximate, since its degree of accuracy decreases with an increase in gas radiation. The present article is an attempt to demonstrate mathematically that introduction of a correction factor, β, into the calculation of Δt can increase the accuracy of the calculation by 20%. Orig. art. has: 24 formulas and 1 table.

SUB CODE: 20/ SUBM DATE: 00/ ORIG REF: 009/ SOV REF: 000/ OTH REF:000

Card 2/2

S/0080/64/037/006/1217/1221

ACCESSION NR: AP4040521

AUTHOR: Doynikov, L. I.; Il'inskaya, O. V.; Borisova, Z. U.

TITLE: Solution kinetics of vitreous AsSe sub x B sub y and AsGeSe sub x B sub y in alkaline solutions

SOURCE: Zhurnal prikladnoy khimii, v. 37, no. 6, 1964, 1217-1221

TOPIC TAGS: arsenic selenide, AsSe sub x B sub y, AsGeSe sub x B sub y, solubility, solution kinetics, stability, activation energy, frequency factor, boron selenide, vitreous arsenic selenide

ABSTRACT: The effect of boron on the solution kinetics of vitreous arsenic selenides $AsSe_xB_y$ and $AsGeSe_xB_y$ was investigated. The limit of the existence of stable (relative to air storage) $AsSe_xB_y$ was found to be in compositions containing up to about 9 at.% boron. The rate of solution of both $AsSe_xB_y$ and $AsGeSe_xB_y$ increased with increase in boron content; this rate is independent of rate of agitation, but increases with increased temperature and increased alkali concentration (temperature- and concentration-solution kinetics curves are included). The energy of activation was reduced from 15 to 10 kcal/mol as boron content was increased from

Card 1/2

ACCESSION NR: AP4040521

0.05 to 0.2 in $AsSe_xB_y$, and from 12 to 7 kcal/mol as boron content was increased from 0.1 to 0.5 in $AsGeSe_xB_y$. The values of the frequency factor in these compositions were also lowered in comparison to values for $AsSe_x$. These lowered values are explained by the relative instability of boron selenide. Orig. art. has: 5 figures, 1 formula and 3 tables.

ASSOCIATION: None

SUBMITTED: 23Jan63   ENCL: 00

SUB CODE: IC   NO REF SOV: 005   OTHER: 002

Card   2/2

... conductivity of vitreous $AsSe_xS_y$ and $AsGeSe_xS_y$

... Shield, v. 37, no. ...

... electric conductivity was measured electrometrically, and the ... relationships were plotted for the $AsSe_xS_y$ and $AsGeSe_xS_y$ ...

...tion of iodine into AgSe... and AgSe . Orig art has: 6 figures.

TITLE: Electrical conductivity of nitrous AsF3 and

L 12123-66   EWP(e)/EWT(m)/EWP(b)   GS/WH

ACC NR: AT6009490   SOURCE CODE: UR/0000/65/000/000/0181/0183

AUTHOR: Borisova, Z.U.; Doynikov, L.I.

ORG: None

TITLE: Study of $AsSe_xI_y$ vitreous melts

SOURCE: Vsesoyuznoye soveshchaniye po stekloobraznomu sostoyaniyu. 4th, Leningrad, 1964. Stekloobraznoye sostoyaniye (Vitreous state); trudy soveshchaniya. Leningrad, Izd-vo Nauka, 1965, 181-183

TOPIC TAGS: arsenic compound, selenium compound, glass, iodine, glass property

ABSTRACT: The region of glass formation in the As–Se–I system was investigated. The microhardness and conductance of the $AsSe_xI_y$ melts in this region were measured. The solution rate of $AsSe_{1.5}$ and $AsSe_{2.4}$ glasses containing 0.1 – 0.5 g-at iodine in 0.25 – 0.75 N NaOH solutions was studied at 20 – 50C. The introduction of iodine lowers the activation energy of solution E_A, and the more iodine is present, the greater this decrease. E_A decreases more in $AsSe_{1.5}I_y$ than in $AsSe_{2.4}I_y$, because the latter consists of a three-dimensional network of $AsSe_{1.5}$ and chains of excess Se, which absorb iodine while the arsenic selenide network remains undisturbed; in $AsSe_{1.5}I_y$, iodine penetrates the arsenic

Card 1/2

L 12123-66

ACC NR: AT6000490

selenide network and thus weakens it. The solution rate depends only slightly on the stirring rate, apparently because the interaction between the glass and the solution occurs primarily at sites of the glass network where the van der Waals forces are weak, so that colloidal rather than molecular particles become detached off the glass. Orig. art. has: 2 figures and 1 table.

SUB CODE: 11 / SUBM DATE: 22May65 / ORIG REF: 003 / OTH REF: 005

Card 2/2

DOYNIKOV, N.I.

Calculating the magnetic field of a cylindrical conductor
of elliptic cross section. Zhur. tekh. fiz. 33 no.9:1144-
1146 S '63.
(MIRA 16:11)

BR ·

ACCESSION NR: AP4028968

AUTHOR: Doynikov, N. I.

TITLE: Direct current resistance of a toroidal loop

TOPIC TAGS: toroidal magnetic field, toroidal conductor resistance

ABSTRACT: The resistance of a conductor having the shape illustrated in the figure (Enclosure 01) was calculated by solving Laplace's equation in bipolar coordinates. The conductor is bounded by the tori generated by rotating circles S_1 and S_2 about the axis z. R_0 is the distance from the center of S_2 to the axis z, and δ is the distance between the centers of S_1 and S_2. The conductor is slotted at V, and the current flows from one face of this annular slot to the other, producing a toroidal magnetic field within the hollow torus generated by S_1. As a function of δ, the resistance has a minimum for the value

$$\delta^* = \frac{\sigma_1^2 \ln \frac{\sigma_2}{\sigma_1}}{2R_0},$$

and the relative reduction of resistance achieved by employing this value of δ in-

Card 1/3

ACCESSION NR: AP4028968

stead of making the circles S_1 and S_2 concentric is

$$\Delta = \frac{R(0) - R(0')}{R(0)} = \frac{c_i^i \ln \frac{c_1}{c_1}}{4R_0^2(c_1^2 - c_i^2)}$$

"The author conveys his gratitude to Professors N.N.Lebedev and N.A.Monoszon for their interest in the work and for valuable advice." Orig.art.has: 9 formulas and 1 figure.

ASSOCIATION: none

SUBMITTED: 00

SUB CODE: PH, CE

DATE ACQ: 28Apr64

NR REF SOV: 002

ENCL: 01

OTHER: 000

Card 2/3

OOYNIKOV, N.I.

Approximate calcul----- of the field distribution in closed
solenoids. Elektrofiz.   app. no.2 14-20 '64.   (MIRA 18:3)

ACC NR: AT6031758   SOURCE CODE: UR/3092/66/000/004/0084/0098

AUTHOR: Doynikov, N. I.

ORG: None

TITLE: Questions concerning calculations for magnetic quadrupole lenses. Assembly accuracy requirements.

SOURCE: Moscow. Nauchno-issledovatel'skiy institut elektrofizicheskoy apparatury. Elektrofizicheskaya apparatura, no. 4, 1966, 84-98

TOPIC TAGS: magnetic quadrupole lens, physics laboratory, laboratory equipment, magnetic field, parameter, industrial production, mathematic analysis

ABSTRACT: Magnetic quadrupole lenses are widely used in physics experiments and have become an indispensable part of the equipment in the modern physics laboratory. Because the transverse dimensions of the focused beam should be no greater than 2 to 3 mm in many cases, the tolerances in field nonlinearity are becoming more rigid, the requirements imposed on identity of magnetic characteristics stiffer, and, as a result, so too are the requirements imposed on manufacturing quality. The general case of why the magnetic field of a real quadrupole lens is not strictly linear is elucidated, and it is pointed out that despite a good deal of writing on the subject of quadrupole lenses, little attention has been given to nonlinearity tolerances in

Card 1/2

ACC NR: AT6031758

lens fields, to justification for the accuracy required in their manufacture, or to
a determination of the permissible deviations in the finished product from design
parameters. The direct relationship between certain of the factors cited and the
geometric parameters characterizing accuracy of assembly and manufacture of the pole
pieces are discussed in detail, and an evaluation of accuracy required in the final
stage of lens assembly work is made. The author thanks N. A. Monoszon for his
statement of the problem and N. S. Strel'tsov, A. V. Popov, and A. M. Shapiro for
fruitful discussions. Orig. art. has: 30 formulas, 4 figures, and 1 table.

SUB CODE: 20/SUBM DATE: None/ORIG. REF: 003/OTH REF: 001

Card 2/2

DOYNIKOV, N. M.

Dissertation: "Effect of Certain Factors on the Ease of Operation of a Friction Clutch."
Cand Tech Sci, Moscow Inst of National Economy imeni G. V. Plekhanov, 2& May 54.
Vechernyaya Moskva, Moscow, 19 May 54.

SO: SUM 284, 26 Nov 1954

DOYNIKOV, Nikolay Mikhaylovich, kand.tekhn.nauk; TURILOV, Grigoriy
Ivanovich, dotsent; KHOMUTOV, Aron Iosifovich, kand.tekhn.nauk;
KOSTIKOV, L.Ye., kand.tekhn.nauk, red.; GOLOVKO, B.N., tekhn.red.

[Mechanical engineering; manual for student of physico-mathematical
departments of pedagogical institutes] Mashinovedenie; uchebnoe
posobie dlia studentov fiziko-matematicheskikh fakul'tetov pedago-
gicheskikh institutov. Moskva, Gos.uchebno-pedagog.izd-vo M-va
prosv.RSFSR, 1959. 395 p.   (MIRA 12:12)
                (Mechanical engineering)

ARTYUGIN, I.M.; GRACHEV, Yu.P.; DAVYDOV, L.N.; DOYNIKOV, Ya.P.; KIRPICHEV,
    V.I.; LEVENTAL', G.B.; MELENT'YEV, L.A.; MICHURIN, K.I.; NIKONOV,
    A.P.; MASHONKO, G.I.; STARIKOV, V.G.; FROLOV, V.I.; KHRILEV, L.S.;
    RABINOVICH, A.L., red.; SOBOLEVA, Ye.M., tekhn. red.

[Technical and economic principles of the expansion of heat sup-
ply engineering in power systems] Tekhniko-ekonomicheskie osnovy
razvitiia teplofikatsii v energosistemakh. Moskva, Gos. energ.
izd-vo, 1961. 318 p.   (MIRA 15:3)
        (Heat engineering)   (Electric power plants)

DOYNIKOVA, L. A.

"Contact Surfaces of Potassium-Aluminate Alum Crystals with Other Bodies."
Zapiski Vses. Mineral. Obshch.,   No. 3,   1948.

GOLUBEVA, A.V.; SIVOGRAKOVA, K.A.; LYANDZBERG, G.Ya.; DOYNIKOVA, S.N.

The SN-28 copolymer of styrole with acrilonitrile. Biul.
tekh.-ekon.inform. no.12:12-13 '58.   (MIRA 11:12)
        (Polymers)   (Acrilonitrile)   (Styrene)

USMANOVA, N.F.; GOLUBEVA, A.V.; VANSHEYDT, A.A.; SIVOGRAKOVA, K.A.;
        DOYNIKOVA, S.N.

Synthesis and properties of polymers and copolymers of α- and
β-vinylnaphthalenes. Report No.3: Copolymerization of β-vinyl-
naphthalene with styrene and plastics derived from them.   Plast.
massy no.5:3-6 '61.   (MIRA 14:4)
                    (Naphthalene)   (Platics)

s/1?? /6? ???/004/001/015

.olibeva, A. V., Katstov, C. L. .ecn????? .?ezterodko, G. L.,
.on, A. V., Usmnova, N. ?., . y..?eva, . ..

Synthesis and polymerization o! styrene d-r:vat:ves. Polymers
of p-chlorostyrene and 2,5-dichlorostyrene.

Plasticheskiy massy, no. 4, 1965, 2 - 5

Mass polymers were produced from styrene, p-chlorostyrene, and 2,5-
.... .rene under equal conditions. Their ??????????????? and
.... properties were compared. Results:

	Poly-p-chloro-styrene	Poly-2,5-di-chlorostyrene	Polystyrene
????? ??-r??ber			
....wei?ht	340.000	3??????	4??.000
.... . streng?h, kg/cm^2	14	?-?	?8-20
bend.ng strength, kg/cm^2	900	600	1100
Vicat heat resistance, °C	140-142	150	110
tanδ at 10^6 cps	0.0004-0.0005	0.0002-0.0003	0.0002
breaking voltage kv/mm	25	28	20-22

Card 1/2

... . no polymerization of...   s/19·/6·/o·./sc·/cc·/o15

......,...-...chlorostyrene was stable to a 7-day action of ... H₂SO₄, 34% HCl,
. ...·., ... CH₃COOH at room temperature, whereas ... ... styrene
. . .. these concentrations. Both chlorine derivative ... ... stable to
.. .. H₂SO₄, 5% NaOH, ..l, glycer... . . .. above
. . .. conditions for ... ..., ..., and ex-
... . were studied. Poly-2,5-dichlor... ... ...t
. . .., ...
.. . .
. .. .
. .. .
. . . .
... . only disadvantage of ... ... is that
. .. .

Card 2/2

GOLUBEVA, A.V.; KATSTOV, O.L. [deceased]; NEYMARK, O.M. [deceased]; BEZBORODKO, G.L.; KON, A.V.; USMANOVA, N.F.; DOYNIKOVA, S.N.

Synthesis and polymerization of styrene derivatives. Synthesis of chloro derivatives of styrene. Plast.massy no.2:3-6 '63.

(MIRA 16:2)

(Styrene polymers)   (Chlorine compounds)

DOYNIKOVA, Ya.P.,inzh.; MELENT'YEV, L.A.,prof.

Method for determining fuel savings and annual expenses caused
by the building of hydroelectric power stations. Elek.sta.
29 no.11:8-13 N '58.   (MIRA 11:12)
            (Hydroelectric power stations)

DOYNIKOVA, Ya.F.

Approximate evaluation of the efficiency of using thermal
electric power plants in variable operation. Trudy LIEI
no.41:282-293 '62.   (MIRA 17:6)

1. Leningradskiy inzhenerno-ekonomicheskiy institut.

TSUKERMAN, R.V., kand. tekhn. nauk; DOYNIKOVA,.Ya.P., kand. tekhn. nauk;
ABASHKINA, O.I., inzh.

Effect of cost indices on the choice of the parameters and unit
power ratings in power installations. Energomashinostroenie 10
no.11:29-33 N '64   (MIRA 18:2)

DOYHO, D.A., kandidat tekhnicheskikh nauk.

D.M. Krymskii's article "Centrifugal casting of cylinder
sleeves." Lit. proizv. no.8:31-32 Ag '56.   (MLRA 9:10)

(Centrifugal casting) (Krymskii, D.M.)

Briquetting of Bronze Chips in an Eccentric Press. D. S. Ibyino (*Litrynw Pdo*, 1941, **12**, (7/8), 24-27; *Chem. Zentr.*, 1943, **114**, (1), 996; *C. Abs.*, 1944, **38**, 3508).—[In Russian.] While bronze chips are most advantageously briquetted at high temperatures, experiments show that bronze containing aluminium 9-10, iron 2·5-3·5, lead 0·6-0·9%, remainder copper, can be briquetted in the cold state with a friction or eccentric press. Similar metal shavings can also be briquetted in the same manner, it being only necessary to predetermine experimentally the reduction in volume and the most suitable pressure.

DOYNO, D. S.

USSR/Metals - Tellurium, Application   Nov 51

"Chilling and Compacting Effect of Tellurium on Cast Iron," D. S. Doyno, Engr, Gor'kiy Automobile Plant iment Molotov

"Litey Proizvod" No 11, pp 14,15

Discusses 3 practical methods of using Te as element causing formation of white cast-iron layer in castings: direct addn into ladle, admixt to mold-facing sand or to mold wash. Latter is most efficient and convenient way of controlling depth of chilled layer. It makes

USSR/Metals - Tellurium, Application   Nov 51
(Contd)

possible obtaining of hard surfaces on casting of any intricate shape, which not always possible with application of metal chills.

198T79